

## Nevada Department of Transportation

## STORMWATER PROGRAM UPDATE

April 11, 2016

David Gaskin, P.E. Deputy Director





## **BACKGROUND**

In 2011, NDOT was audited by the U.S. Environmental Protection Agency and the Department's Stormwater Program was found to be inadequate.

In June of 2015, the Nevada Legislature approved Senate Bill 324 and a budget amendment which gave NDOT the resources and authority necessary to build a fully compliant Stormwater Program.

SB 324 provided NDOT with enforcement authority to prevent unauthorized discharges onto state highways, rights-of-way and conveyance systems.

NDOT is working with the EPA and Nevada Division of Environmental Protection to implement a Stormwater Program that meets or exceeds all requirements.





## US EPA

Parties have reached conceptual agreement on settlement terms.

Legal steps to finalize the Consent Decree are proceeding.









## STATUS UPDATE

- Deputy Director
- Stormwater Division Chief
- Information Manager
- Design and Planning Manager
- Program Manager
- Compliance/Enforcement Manager

Hiring of additional staff is ongoing, including compliance and maintenance personnel in the 3 districts.

All major equipment for FY16 is on order. Pickups and sedans are arriving.





## PROGRAM DEVELOPMENT

- Stormwater Management Plan
- Annual Report
- Public Stormwater Education Program
- Employee Training
- Construction Site Runoff Control Program
- Post-Construction Stormwater Management Program
- Illicit Discharge Detection and Elimination
- Operation and Maintenance Program
- Maintenance Facilities







## MAINTENANCE YARD PROJECTS



- Scheduled completion 2016



- Carson City Maintenance Yard
  - -Phase One 85% complete
  - -Phase Two completion scheduled May 2016
- Continuing to identify maintenance yard improvement needs





## **MEETINGS**

Advisory Committee on Transportational Storm Water Management (ACTSWM)

Interim Finance Committee (IFC)

Stormwater Quality Management Committee (SQMC)

Associated General Contractors (AGC)

Nevada Contractors Association (NCA)

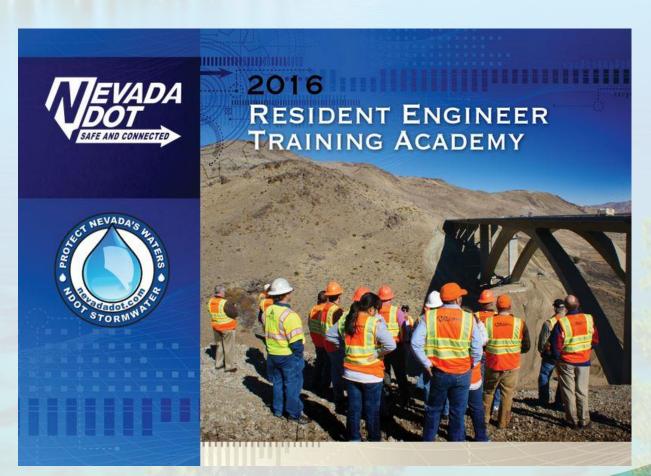




## RESIDENT ENGINEERS

March 8-10 - RE Meeting, Elko

April 13 – RE Academy, Reno







## PUBLIC OUTREACH SOCIAL MEDIA

Twitter & Facebook January 01 – March 28, 2016



63,502 Impressions



9,052 Reached



NDOT Stormwater News 7 videos with 1,715 total views







## PUBLIC OUTREACH

### Stormwater Fact Sheets

#### rmwater Best Management Practices

#### INDUSTRIAL and COMMERCIAL FACILITIES





materials used at industrial and commercial facilities. Every facility must take steps to prevent pollutants from entering the storm drain system where they can then find their way to our lakes and

Practices (BMPs), that can be taken to keep used BMPs include.

Material Storage Mazandous materials should be properly labeled and

secured with secondary containment. Store materials indoors or under cover when possible Avoid storing and using hazardous materials near a



rain. Don't dispose liqu dispose of waste make ments and other mater als that might be flushed

spills. Never wash spills or other materials into a storm

dumping to a storm drain, call NDEP's spill response hotlin immediately at (888) 331-6337

alament. Perform vehicle maintenance indoors or unde

More information about NDOT's stormwater program, including illicit discharge reporting, can be found on NDOT's

#### water Best Management Practices

#### HOMEOWNERS



Surprisingly, homes can be a significant contributor of pollutants reaching our streams and lakes. Every neowner must take steps to reduce the amount ullutents leaving their property and entering the m drain.

There are many actions, or Bert Management Practices (BMPs), that can be taken to reduce water pollution from your horne and property. Some commonly used BMPs around the home include:



Poved Areas Regularly sweep paved

Nation wastes in the wastes in the wastes in the wastes in Vehicle Ministerior months and promptly repair. Use drug pass when serving vehicles and properly dispose of waste vehicle fluids. Promptly clean any vehicle fluid drips and spills using "day clean up" methods and properly dispose of the waster mattern."

Hist Dischurges Never dump anything into the storm drain (like paints, oils, or trash). If you see anyone dumping to a storm drain, call NDEP's spill response hottine immediately at (888)-331-332-

More information about NDOT's stormwater program, including Vicit discharge reporting, can be found on NDOT's

stabilization

Inflitrate stormwa

runoff orally to the

### ormwater Best Management Practices

### MINING & AGGREGATE FACILITIES





There are many actions, or Best Management pollutants out of the storm drains. Some conused RMPs include:

Moterial Storage and Stockpife Management
Locate material storage areas and stockpiles away
from storm drains and undercover where possible. nstall perimeter controls around all stockpiles. Hazardous materials must be properly labeled and

Use "dry clean up" methods on wet soills. Properly



vehicles and equipment at designated areas when a

ernwater and store materials under roofs whenever stible. Use appropriate dust control measures. Avoid using or handling materials during inclement weather.

nyone dumping to a storm drain, call NOtP's splil respon offine immediately at (888) 331-6337.

ation about stormwater RMPs can be found on the U.S. EPA's website at http://www.epa.gov/nado

### Stormwater Brochure



In Nevada, sewer systems and stormw drains are two different things. Water that goes down a sink or toilet flows to wastewater treatment plant where it treated and filtered. Water that flows r waters and harm or kill off local wildlife

- Pick up pet waste and dispose of it
- vard waste. Don't leave it in the street or sweep it into storm drains. onto the ground or into storm drains

- your car on your yard so the water Repair vehicle leaks and dispose
- of used auto fluids and batteries at



diately at (888)-331-6337.

Carson City Nevada 89712











# SAFE AND CONNECTED





pollution to Nevada's waterways. Every postruction contractor must take steps to prevent

where they can find their way to our lakes and There are many actions, or Best Management pollutants out of the storm drains. Some commonly ned construction site BMPs include

drains and along waterways and ditches. Use erosion control or soil stabilization measures on

install signs clearly showing their locations. Properly contain and dispose of all concrete wastes.



on a frequent basis. dior Discharges Never dump anything into the storm drain. If you see anyone dumping to a storm drain, call NOEP's spill respon hotline immediately at (888) 331-6337.

from storm drains

indoors or under o

Service vehicles and equipment at designated facilities

install track-out devices to remove sediment from vehicle:

leaving the site. Sweep up sediments deposited on paved

Additional information about stermwater BAPs can be found on the U.S. EPA's website at http://www.epa.gov/npde



## PUBLIC OUTREACH

## **Events & Meetings**

STEM / STEAM NIGHT (Science, Technology, Engineering, the Arts and Math) Eagle Valley Middle School

Nevada Water Environmental Association (NWEA) conference

I-515 project in Las Vegas Public meeting

Cave Rock project Public Meeting

Partnering with other NDOT groups to share booths at upcoming events





## WEBSITE UPDATES

- Enhanced Stormwater icon and links on NDOT home page
- New Illicit Discharge Reporting form & Comments form
- FAQ section
- Emergency contacts
- Public involvement information and education materials
- Resources and documents









## LAKE TAHOE

## Major Projects Completed in the last 5 Years

- SR 431 Mt. Rose Highway
- SR 28 Incline Village to Stateline
- SR 28 / SR 431 Roundabout
- SR 207 Kingsbury Grade
- US 50 Slope Stabilization
- Round Hill Bike Path
- Incline Village Green Streets Water Quality Basins
- Kingsbury Maintenance Yard
- Purchased 3 Best Available Technology (BAT)
   Abrasive Spreaders
- Purchased 2 BAT Sweepers





## LAKE TAHOE

Most recent pollutant load reduction estimates show that NDOT has met and exceeded sediment reduction goals for the Lake Tahoe Basin. The efforts of District II Maintenance Staff have been instrumental in the success of the program.

We will continue to develop plans to meet pollutant reduction goals for water quality projects with an increased focus on maintenance practices.

Current Projects with Water Quality Improvement Aspects

- US 50 Cave Rock
- SR 28
- US 50 Burke Creek
- US 50 Zephyr Cove





## ASSET MANAGEMENT

The Consent Decree requires a number of automated inventory and mapping capabilities.

- A system to track all active construction projects
- A tracking database for all post-construction control measures
- Database to record location and descriptive information on all outfalls
- Database to maintain records of all outfall inspections and illicit discharge investigations
- A comprehensive storm sewer system map of all assets

Integrated asset management can address all of these needs.





# ENTERPRISE ASSET MANAGEMENT SYSTEM (EAMS)

NDOT is preparing to develop an integrated asset management program, called EAMS.

Short term – a number of interim systems, compatible with EAMS when it is ready.







## STORMWATER PROGRAM

**Protecting Nevada's Waters** 

NDOT is developing a dedicated Stormwater Division that focuses on meeting and exceeding the stormwater provisions of the Clean Water Act.



